

SEQUENCE LISTING

<110> Jackson, W. James
Harris, Andrea M.

<120> NEISSERIA SPP. POLYPEPTIDE, NUCLEIC ACID AND USES
THEREOF

<130> 7969-082

<140>

<141>

<160> 10

<170> PatentIn Ver. 2.0

<210> 1

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

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46

<210> 2

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

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<210> 3

<211> 1395

<212> DNA

<213> Neisseria gonorrhoeae

<400> 3

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acggaagagc taccgctcgt caaaatcggc aatcccaaaa atttgaaacc gggcgaatgg 600
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<210> 4
<211> 465
<212> PRT
<213> Neisseria gonorrhoeae

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Lys Glu Ala Ser Phe Val Glu Arg Ile Glu His Thr Lys Asp Asp Gly
      35              40              45

Ser Val Ser Met Leu Leu Pro Asp Phe Ala Gln Leu Val Gln Ser Glu
      50              55              60

Gly Pro Ala Val Val Asn Ile Gln Ala Ala Pro Ala Pro Arg Thr Gln
      65              70              75              80

Asn Gly Ser Gly Asn Ala Glu Thr Asp Ser Asp Pro Leu Ala Asp Ser
      85              90              95

Asp Pro Phe Tyr Glu Phe Phe Lys Arg Leu Val Pro Asn Met Pro Glu
      100             105             110

Ile Pro Gln Glu Glu Ala Asp Asp Gly Gly Leu Asn Phe Gly Ser Gly
      115             120             125

Phe Ile Ile Ser Lys Asn Gly Tyr Ile Leu Thr Asn Thr His Val Val
      130             135             140

Ala Gly Met Gly Ser Ile Lys Val Leu Leu Asn Asp Lys Arg Glu Tyr
      145             150             155             160

Thr Ala Lys Leu Ile Gly Ser Asp Val Gln Ser Asp Val Ala Leu Leu
      165             170             175

Lys Ile Asp Ala Thr Glu Glu Leu Pro Val Val Lys Ile Gly Asn Pro
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Lys Asn Leu Lys Pro Gly Glu Trp Val Ala Ala Ile Gly Ala Pro Phe
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 Ser Leu Pro Asn Glu Ser Tyr Thr Pro Phe Ile Gln Thr Asp Val Ala
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 Ile Asn Pro Gly Asn Ser Gly Gly Pro Leu Phe Asn Leu Lys Gly Gln
 245 250 255
 Val Val Gly Ile Asn Ser Gln Ile Tyr Ser Arg Ser Gly Gly Phe Met
 260 265 270
 Gly Ile Ser Phe Ala Ile Pro Ile Asp Val Ala Met Asn Val Ala Glu
 275 280 285
 Gln Leu Lys Asn Thr Gly Lys Val Gln Arg Gly Gln Leu Gly Val Ile
 290 295 300
 Ile Gln Glu Val Ser Tyr Gly Leu Ala Gln Ser Phe Gly Leu Asp Lys
 305 310 315 320
 Ala Ser Gly Ala Leu Ile Ala Lys Ile Leu Pro Gly Ser Pro Ala Glu
 325 330 335
 Arg Ala Gly Leu Gln Ala Gly Asp Ile Val Leu Ser Leu Asp Gly Gly
 340 345 350
 Glu Ile Arg Ser Ser Gly Asp Leu Pro Val Met Val Gly Ala Ile Thr
 355 360 365
 Pro Gly Lys Glu Val Ser Leu Gly Val Trp Arg Lys Gly Glu Glu Ile
 370 375 380
 Thr Ile Lys Ala Lys Leu Gly Asn Ala Ala Glu His Thr Gly Ala Ser
 385 390 395 400
 Ser Lys Thr Asp Glu Ala Pro Tyr Thr Glu Gln Gln Ser Gly Thr Phe
 405 410 415
 Ser Val Glu Ser Ala Gly Ile Thr Leu Gln Thr His Thr Asp Ser Ser
 420 425 430
 Gly Lys (His) Leu Val Val Val Arg Val (Ser) Asp Ala Ala Glu Arg Ala
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 Gly Leu Arg (His) Gly (Asp) Glu Ile Leu Ala Val Arg Ala (Ser) Pro Arg
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 Gln
 465

<210> 5
 <211> 1242
 <212> DNA
 <213> Neisseria gonorrhoeae
 <400> 5

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<210> 6
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 <213> Neisseria gonorrhoeae

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 35 40 45
 Tyr Glu Phe Phe Lys Arg Leu Val Pro Asn Met Pro Glu Ile Pro Gln
 50 55 60
 Glu Glu Ala Asp Asp Gly Gly Leu Asn Phe Gly Ser Gly Phe Ile Ile
 65 70 75 80
 Ser Lys Asn Gly Tyr Ile Leu Thr Asn Thr His Val Val Ala Gly Met
 85 90 95
 Gly Ser Ile Lys Val Leu Leu Asn Asp Lys Arg Glu Tyr Thr Ala Lys
 100 105 110
 Leu Ile Gly Ser Asp Val Gln Ser Asp Val Ala Leu Leu Lys Ile Asp
 115 120 125
 Ala Thr Glu Glu Leu Pro Val Val Lys Ile Gly Asn Pro Lys Asn Leu
 130 135 140
 Lys Pro Gly Glu Trp Val Ala Ala Ile Gly Ala Pro Phe Gly Phe Asp
 145 150 155 160

Asn Ser Val Thr Ala Gly Ile Val Ser Ala Lys Gly Arg Ser Leu Pro
 165 170 175
 Asn Glu Ser Tyr Thr Pro Phe Ile Gln Thr Asp Val Ala Ile Asn Pro
 180 185 190
 Gly Asn Ser Gly Gly Pro Leu Phe Asn Leu Lys Gly Gln Val Val Gly
 195 200 205
 Ile Asn Ser Gln Ile Tyr Ser Arg Ser Gly Gly Phe Met Gly Ile Ser
 210 215 220
 Phe Ala Ile Pro Ile Asp Val Ala Met Asn Val Ala Glu Gln Leu Lys
 225 230 235 240
 Asn Thr Gly Lys Val Gln Arg Gly Gln Leu Gly Val Ile Ile Gln Glu
 245 250 255
 Val Ser Tyr Gly Leu Ala Gln Ser Phe Gly Leu Asp Lys Ala Ser Gly
 260 265 270
 Ala Leu Ile Ala Lys Ile Leu Pro Gly Ser Pro Ala Glu Arg Ala Gly
 275 280 285
 Leu Gln Ala Gly Asp Ile Val Leu Ser Leu Asp Gly Gly Glu Ile Arg
 290 295 300
 Ser Ser Gly Asp Leu Pro Val Met Val Gly Ala Ile Thr Pro Gly Lys
 305 310 315 320
 Glu Val Ser Leu Gly Val Trp Arg Lys Gly Glu Glu Ile Thr Ile Lys
 325 330 335
 Ala Lys Leu Gly Asn Ala Ala Glu His Thr Gly Ala Ser Ser Lys Thr
 340 345 350
 Asp Glu Ala Pro Tyr Thr Glu Gln Gln Ser Gly Thr Phe Ser Val Glu
 355 360 365
 Ser Ala Gly Ile Thr Leu Gln Thr His Thr Asp Ser Ser Gly Lys His
 370 375 380
 Leu Val Val Val Arg Val Ser Asp Ala Ala Glu Arg Ala Gly Leu Arg
 385 390 395 400
 His Gly Asp Glu Ile Leu Ala Val Arg Ala Ser Pro Arg Gln
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<210> 7
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 <212> PRT
 <213> Neisseria gonorrhoeae

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Leu Leu Ala Gly Cys Glu Lys Ala Gly Ser Phe Phe Gly Ala Asp Lys
 20 25 30

Lys Glu Ala Ser Phe Val Glu Arg Ile Glu His Thr Lys Asp Asp Gly
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Ser Val Ser
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<210> 8
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<210> 9
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 <212> PRT
 <213> Neisseria gonorrhoeae

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 1 5 10

<210> 10
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 <212> PRT
 <213> Neisseria gonorrhoeae

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 1 5 10